Index

Acadian event, granitoid intrusion in Scotland 661–674
accommodation zones, Afar grabens 535–547
accretionary prism, provenance studies in Indo-Burman Ranges 1045–1057
Aegean Sea, ductile thinning and blueschist exhumation 1019–1030
Aegean Sea Basin, opening 263–277
aeromagnetic anomalies, dykes on Falkland Islands 1–4
Afar, graben structures 535–547
AFTA
  Chilean margin collision and subduction 941–953
  Mykonos monzogranite 263–277
Agly Massif, structure and dating 141–152
Alai Range, Silurian–Devonian stratigraphy 189–210
Alpine Orogeny, metamorphism in Carpathians 479–498
Altan Uul Ophiolite 711–723
Altnaharra Formation 379–394
ambient inclusion trails (AIT) 43–53
AMS *see* magnetic susceptibility
analogue modelling, faulting and diapirs 1031–1044
anatexis, Lesser Himalayan Sequence 725–737
Andes, metabasite chronology 579–584
Ankylosauria 613–623
Ansignan charnockite 141–152
apatite age, U and Th analyses 941–953
Apennines, Pliocene crustal shortening 105–114
Ar diffusion modelling, West Carpathians 479–498
$^{40}Ar/^{39}Ar$ dating
  Andean metabasites 579–584
  Carpathian metamorphism 479–498
  Chilean margin collision and subduction 941–953
  dykes on Falkland Islands 1–4
  granites of southern Italy 247–262
  Kenya Rift tuffs 549–562
  Lewisian pseudotachylite 73–83
  magmatism of Mamonia Complex 699–709
  metamorphic core complexes of CAOB 405–421
  Mykonos monzogranite 263–277
  Tyrone Central Inlier 675–685
  volcanism on Rum 651–659
aragonite, mollusc-derived in LMAs 395–403
Archaean
  biogeochemistry in Australia 43–53
  lithosphere and diamond formation 895–914
  Scottish Caledonian basement inliers 807–815
architecture, sand injectites 609–612
Arrow Canyon (Nevada), GSSP 859–873
Atlantic Ocean (North), tectonomagmatic evolution 31–42
Atlantic Ocean (South) tectonic evidence from dykes 1–4
Atlas Mountains, Quaternary fluvial incision 1059–1073
Australia
  Archaean biogeochemistry 43–53
  Late Palaeozoic ice age evidence 129–140
Avalonia, convergence with Laurentia 817–827

Baram Deltaic Province, sediment volume calculations 353–366
basalt, chemostratigraphy in Deccan Province 177–188
basin analysis, Mesozoic rifting in Iberia 1007–1018
basin volume, calculations basedon exhumation in Borneo 353–366
bathymetry, data collection in Clew Bay 597–607
Be-10 TCN methods 1059–1073
bentonite, stratigraphy in Sweden 211–220
biostratigraphy, relation to bentonite correlations 211–220
Bird Spring Formation 859–873
Blue Lias Formation 319–332
blueschist, ductile thinning and exhumation 1019–1030
Borneo, Tertiary exhumation and sediment volume 353–366
bottom currents, evidence from Cretaceous in North Sea 55–72
bottom-simulating reflectors (BSR), offshore Nicaragua 167–176
Boundary Igneous Complex, tectonic setting 153–165
brecciation, Dent and Rawthey faults 829–837
British Columbia, Phyllopod Bed sedimentology 307–318
Bulgaria, transtension in Simitli Basin 499–510
Burgess Shale Formation 307–318
burial events, Alpine of Carpathians 479–498
Burma *see* Myanmar

$\delta^{13}C$
  biogeochemistry in Australia 43–53
  characterizing nappe emplacement in Namibia 739–753
  cyclical deposition in Namurian 993–1005
  dating marine stratigraphy off Montserrat 675–685
Caledonian Orogeny
  deformation in NW Ireland 341–352
  granitoids of Scotland 817–827
Caledonides
  granitoids intrusion in Scotland 661–674
  Moine Supergroup basement inliers 807–815
Cambrian, Phyllopod Bed of British Columbia 307–318
Canada, Phyllopod Bed sedimentology 307–318
carbon isotope excursions (CIE), PETM discussion 875–880
carbonate cement, modern and Palaeozoic compared 395–403
carbonate reefs, IODP expedition 310 585–596
Carboniferous
  earliest reptiles (discussion) 983–987
  evolution of Chinese Tianshan 511–522
  glaciation in Australia 129–140
  GSSP, Arrow Canyon (Nevada) 859–873
  palaeoecology in NE England 993–1005
  suture in Mongolia 711–723
  synorogenic deposits in NW Iberian Massif 687–698
Carpathians (West), metamorphic events 479–498
Catalonia, dinosaur trackways 115–127
cements, Dent and Rawthey faults 829–837
Cenozoic *see* Eocene; Miocene; Neogene; Oligocene; Palaeocene;
  Pliocene Central Asian Orogenic Belt (CAOB)
  metamorphic core complexes 405–421
  tectonic setting for northern margin 235–246
Chakush Formation 189–210
Chalk Group 55–72
chemostratigraphy, basalts of Deccan Province 177–188
Chile
  Mesozoic metabasite chronoogy 579–584
  molluscs and Pliocene SST 1075–1084
  Neogene deformaion 291–306
  ocean crust subduction 941–953
China
  dating Korla mafic dykes 887–890
  metamorphism of Sulu Belt 423–433
  phylogeny in Ediacaran cherts 367–378
  Tianshan Tectonic Zone evolution 511–522

chitinozoans, biostratigraphy and bentonite correlations 211–220
clastic sills 609–612
Clew Bay, Quaternary glacial cycles 597–607
Columbia River Basalt Group, nutrient flux in LIP 955–966
conodonts, biostratigraphy and bentonite correlations 211–220
conservation, dinosaur tracksites 115–127
continental crust
  controls on faulting 449–452
  see also lithosphere
core recovery, IODP expedition 310 585–596
Cotswolds (England), topography and denudational isostasy 85–103
cratons, origin of 453–465
Cretaceous
  Andean metabasite chronology 579–584
  bottom currents evidence in North Sea 55–72
  dinosaur tracksite in Spain 115–127
  provenance of sediments in Greenland 755–767
  rifting record in Iberia 1007–1018
  tectonics of South Atlantic 1–4
crust *see* continental *also* oceanic
crystallization history, New Zealand pluton 435–447
Cyclades, Aegean Sea Basin opening 263–277
Cycladic blueschist unit, ductile thinning and exhumation 1019–1030
cycles, glacioeustatic drivers of 993–1005
cyclostratigraphy, mid Carboniferous 859–873
Cyprus, magmatism of Mamonia Complex 699–709

Dalradian Supergroup, correlation with Ireland 675–685
Danish Central Graben, Cretaceous bottom currents and slope failure 55–72
Dead Sea transform 563–578
Deccan Volcanic Province, chemostratigraphy 177–188
Declinognathodus noduliferus 859–873
deformation
  Caledonian of NW Ireland 341–352
  Neogene in Chilean forearc 291–306
  Pliocene crustal shortening in Italy 105–114
  reactions in serpentine 639–649
  Simitli Basin 499–510
  use of tectonic sequence diagrams 923–939
deglaciation, evidence from Clew Bay sediments 597–607
dehydration reactions, serpentine 639–649
Delphic Oracle geomythology 5–18
Dent Fault, cements and fluid flow 829–837
detachment *see* Mykonos detachment
Devonian
  stratigraphy of Alai Range 189–210
  synorogenic deposits in NW Iberian Massif 687–698
Dhiarizos Group 699–709
diamonds, Archaean 895–914
diapirs, relation to faults in Zagros Fold and Thrust Belt 1031–1044
digital outcrop modelling (DOM), use in tracksite conservation 115–127
digital terrane modelling (DTM), Cotswolds (England) 85–103
dinosaurs
  Cretaceous trackways 115–127
  history of British 613–623
discussions
  earliest reptile ecology 983–987
  Late Triassic extinction 988–992
  PETM carbon isotope excursions 875–880
Djibouti, graben structures 535–547
Dobe Graben (Afar) 535–547
dolomitization, thrust zone fluid interactions 739–753
ductile flow, contribution to exhumation 1019–1030
dykes
  emplacement and sector collapse 883–886
  Neoproterozoic of Tarim Block 887–890
  tectonic significance in Falkland Islands 1–4
Dzhidala Formation 189–210

Earthquake Flat Pyroclastics 435–447
earthquakes, mantle and continent 453–465
East Anatolian Contractional Province 849–857
ecology, earliest reptiles (discussion) 983–987
Ediacaran cherts, phylogenetic studies in China 367–378
El Niño, evidence for Pliocene SST 1075–1084
electron microprobe, monazite geochronology 511–522
emplacement, Saint-Arnac pluton 141–152
England
  Dent Fault fluid flow 829–837
  topography and denudational isostasy 85–103
  Triassic palaeoecology 319–332
environmental change, CIE discussion 875–880
Eocene
  PETM carbon isotope excursions (discussion) 875–880
  Silverpit Impact Crater 781–794
erosion
  Cotswold isostasy 85–103
  see also denudation
Estonia, Silurian bentonites and biostratigraphy 211–220
Ethiopia, graben structures 535–547
evolution, a glacioeustatic driver 993–1005
exhumation
  Alpine of Carpathians 479–498
  bluescist of Aegean Sea 1019–1030
  sediment volume calculations in Borneo 353–366
extension
  Aegean Sea Basin opening 263–277
  Afar grabens 535–547
  Mesozoic of Andes 579–584
  Mesozoic of Iberia 1007–1018
extinction event, Late Triassic 988–992

fabric anisotropy, effect on faulting in continental crust 449–452
Falkland Islands, Cretaceous dykes 1–4
Falkland Plateau, lithospheric structure 795–806
fault systems, fluid flow in NW England 829–837
faulting
  controls in continental crust 449–452
  Levant margin reactivation 563–578
  relation to diapirs in Zagros Fold and Thrust Belt 1031–1044
  see also normal; strike-slip; thrusts
flood basalt, chemostratigraphy in Deccan Province 177–188
flora, Namurian of NE England 993–1005
fluid flow, fault systems in NW England 829–837
fluid–rock interaction, thrust zone tectonics in Namibia 739–753
fluvial deposition, Neoproterozoic of Scotland 379–394
fluvial incision, Quaternary of Morocco 1059–1073
forearc basins, Neogene of Chile 291–306
France, Variscan evolution in SE 467–478
Fumanya, dinosaur trackways 115–127

Gavorrano antiform, evidence for crustal shortening 105–114
geochemistry
  Delphi 5–18
  jadeitite of Myanmar 221–234
  Scottish Caledonian granitoids 817–827
geochronology *see* $^{40}Ar/^{39}Ar$; K–Ar; Rb–Sr; U–He; U–Pb
geomorphology, relation to tectonics in Turkey 849–857
geomythology 5–18

geophysical logging, IODP expedition 310 585–596
geotherms, relation to mantle earthquakes 453–465
glaciation
  cycles in Clew Bay sediments 597–607
  Late Palaeozoic in Australia 129–140
glacioeustasy, Carboniferous 993–1005
glaciological model, Saharan ice sheet 19–29
Global Stratotype Section and Point (GSSP), Arrow Canyon (Nevada) 859–873
gneiss, evolution and multiple deformation 923–939
Gondwanaland, rifting and magmatism 699–709
Gotland, Silurian bentonites and biostratigraphy 211–220
Grampian Highlands, Caledonian granitoids 817–827
Grampian Orogeny
  granitoid intrusion in Scotland 661–674
  Midland Valley Terrane in Ireland 675–685
granites
  Caledonian of NW Ireland 341–352
  Plio-Pleistocene of southern Italy 247–262
granitoids
  Caledonian of Scotland 817–827
  Neoproterozoic of Namibia 153–165
  Neoproterozoic of Scotland 661–674
graptolites, biostratigraphy and bentonite correlations 211–220
gravity, relation to effective elastic thickness 453–465
gravity cores, Bay of Naples 839–848
gravity modelling, Falkland Plateau 795–806
Great Britain, dinosaur history 613–623
Greece
  Aegean Sea Basin opening 263–277
  geomythology of Delphi 5–18
Greenland, Cretaceous sediment provenance studies 755–767
Grenville
  deformation evidence from Lewisian 73–83
  fluvial deposit correlations 379–394

hadrosaurids 613–623
Hanle Graben (Afar) 535–547
hazard, Stromboli sector collapse 883–886
Herculaneum Fan, AD79 Vesuvius eruption 839–848
heritage sites, conservation issues 115–127
Heterodontosauridae 613–623
Highland Boundary Fault 915–921
Himalaya
  Main Central Thrust 523–534
  tectonic evolution of orogenic belts 725–737
Himalayan collision zone 453–465
Horodyskia, phylogeny in Ediacaran cherts 367–378

I-type granite, Scottish granitoids 661–674
Iberian Massif, depositional age in Variscan Belt 687–698
Iberian Plate, Mesozoic extension record 1007–1018
ice streams, Saharan ice sheet reconstruction 19–29
Icelandic plume 31–42
ichnites, Cretaceous dinosaur 115–127
igneous petrology, tectonic setting of Olkhon terrane 115–127
Iguanodon 613–623
impact craters, Silverpit 781–794
India, tectonics of the Lesser Himalayan Sequence 725–737
Indo-Burman Ranges, provenance of Tertiary sediments 1045–1057
injectites 609–612
Integrated ODP (IODP) 585–596
Ireland
  Caledonian strike-slip 341–352
  Clew Bay sediments 597–607
  tectonothermal evolution of Tyrone Central Inlier 675–685
Israel, Jaffa Basin formation 563–578
Italy
  AD79 Vesuvius eruption 839–848
  dyke emplacement at Stromboli 883–886
  Plio-Pleistocene metamorphism 247–262
  Pliocene crustal shortening 105–114

jadeitite, geochemistry in Myanmar 221–234
Jaffa Basin 563–578
Jurassic
  Andean metabasite chronology 579–584
  carbon isotope excursions (discussion) 875–880
  Myanmar jadeitite 221–234
  palaeoecology in SW England and Wales 675–685
  rifting record in Iberia 1007–1018
  tectonics of South Atlantic 1–4

K–Ar dating, Andean metabasites 579–584
K–T boundary, stratigraphy in Deccan Province 177–188
Kaoko Belt, Neoproterozoic igneous complex 153–165
Kenya Rift, tuff chronology 549–562
Korla region, Neoproterozoic mafic dykes 887–890
Kyrgystan *see* Alai Range

LA–ICP–MS method 687–698, 755–767
  Andean metabasite chronology 579–584
  dating Neoproterozoic if Namibia 153–165
LA–MC–ICP–MS 675–685
landforms, relation to tectonics in Turkey 849–857
Langavat Belt, new ages for 967–981
Larderello geothermal field 247–262
large igneous province (LIP), nutrient flux 955–966
laser scanning 625–638
Latvia, Silurian bentonites and biostratigraphy 211–220
Laurentia
  convergence with Avalonia 817–827
  Grampian imbrication of microcontinent 675–685
  margin behaviour in Caledonian Orogeny 807–815
Leannan Fault, Caledonian strike-slip 341–352
Lesser Antilles, Late Pleistocene tephrochronology 279–289
Levant margin, Jaffa Basin formation 563–578
Lewisian, Grenville age pseudotachylite 73–83
Lewisian Complex 967–981
LiDAR (Light Detection and Range) 625–638
  use in tracksite study 115–127
Lilstock Formation 319–332
limestone–marl alternations (LMA), modern and Palaeozoic comparisons 395–403
lithofacies analysis, mid Carboniferous 859–873
lithosphere
  Falkland Plateau 795–806
  formation of Archaean continental 895–914
  structure and rheology 453–465
Liuchapo Formation 367–378
lizardite, deformation reactions 639–649
Lu–Hf system, in zircons of Cretaceous sediments 687–698, 755–767

magmatism
  North Atlantic 31–42
  Triassic on Cyprus 699–709
magnetic susceptibility, Mesozoic extension in Iberia 1007–1018
Main Central Thrust (Himalaya) 523–534

Mamonia Complex, magmatism 699–709
Marginocephalia 613–623
Mejillones Peninsula, molluscs and Pliocene SST 1075–1084
Mesozoic *see* Cretaceous; Jurassic; Triassic
metamorphic core complexes (MCC), Mesozoic of CAOB 405–421
metamorphic rocks
  exhumation processes 1019–1030
  deformation reactions in serpentine 639–649
metamorphism
  Andean Mesozoic 579–584
  CAOB Mesozoic 405–421
  Carpathian multiple events 479–498
  Himalaya Main Central Thrust 523–534
  Italy Plio-Pleistocene 247–262
  Lesser Himalayan Sequence 725–737
  Namibia Neoproterozoic 153–165
  Olkhon terrane tectonics 235–246
  Sulu Belt dating 423–433
  Tyrone Central Inlier 675–685
micropalaeontology, marine sediments of Montserrat 675–685
Midland Valley Terrane, Ireland 675–685
Miocene, Levant margin reactivation 563–578
Mississippian, GSSP, Arrow Canyon (Nevada) 859–873
moat and pedestal structure 769–780
modelling *see* analogue modelling
Moine Supergroup, basement inliers 807–815
molluscs
  Pliocene SST evidence 1075–1084
  as source of aragonite in LMAs 395–403
monazite age
  evolution of Chinese Tianshan 511–522
  Himalaya Main Central Thrust 523–534
  Variscan belt of SE France 467–478
Mongolia
  Mesozoic core complexes 405–421
  ophiolite petrology 711–723
Montserrat, Late Pleistocene tephrochronology 279–289
Morar Group 379–394
Morocco, Quaternary fluvial incision 1059–1073
mud mounds, offshore Nicaragua 167–176
mud volcanoes, structure and formation 769–780
Myanmar (Burma)
  age and geochemistry of jadeitite 221–234
  provenance of Tertiary sediments 1045–1157
Mykonos detachment 263–277

Namibia
  nappe emplacement 739–753
  Neoproterozoic igneous complex 153–165
Namurian, palaeoecology in NE England 993–1005
NanoSIMS technology 43–53
Naples, Bay of, AD79 Vesuvius eruption 839–848
Naukluft Thust 739–753
$^{143}Nd/^{144}Nd$ isotope ratio
  Himalaya Main Central Thrust 523–534
  Scottish Caledonian granitoids 817–827
Neo-Tethys, ocean basin development 699–709
Neogene
  Chilean forearc deformation 291–306
  see also Miocene; Pliocene
Neoproterozoic
  fluvial sedimentology in Scotland 379–394
  igneous complex of Namibia 153–165
  Korla mafic dykes of China 887–890
  Scottish granitoids 661–674
Nepal, Main Central Thrust of Himalaya 523–534
Nevada, GSSP, Arrow Canyon 859–873
New Zealand, Earthquake Flat Pyroclastics 435–447
Nicaragua, offshore mud mounds and submarine slides 167–176
normal faulting, slip and timing of Mykonos detachment 263–277
North China Craton, metamorphism of Sulu Belt 423–433
North Sea, Cretaceous bottom currents and slope failure 55–72
Northern Ireland, dating Tyrone Volcanic Group 333–339
nutrient flux, volcanogenic 955–966

$\delta^{18}O$
  characterizing nappe emplacement in Namibia 739–753
  dating marine stratigraphy off Monserrat 675–685
ocean crust, subduction on Chilean margin 941–953
ODP (ocean drilling programme), integrated 585–596
Oligocene, Levant margin reactivation 563–578
Olkhon terrane, tectonic setting 235–246
Omo Group 549–562
ophiolite, petrology and structure in Mongolia 711–723
Ordovician
  Saharan ice sheet 19–29
  Tyrone Volcanic Group of Northern Ireland 333–339
Ornithischia, history of British 613–623
Ornithopoda 613–623
Ouarzazate foreland basin, Quaternary fluvial incision 1059–1073
Outer Hebrides, new age for Langavat Belt 967–981
overthrust, North and South China cratons 423–433

Pacific Ocean
  IODP expedition 310 in southern ocean 585–596
  mud mounds and submarine slides off Nicaragua 167–176
Palaeocene, PETM carbon isotope excursions (discussion) 875–880
palaeoclimate, IODP data 585–596
palaeoecology
  Late Triassic (discussion) 988–992
  Namurian in NE England 993–1005
  Triassic of SW England and Wales 319–332
Palaeogene *see* Palaeocene; Eocene; Miocene
palaeogeography, Silurian–Devonian of Central Asia 189–210
Palaeopascichnus, phylogeny in Ediacaran cherts 367–378
Palaeozoic
  evolution of Chinese Tianshan 511–522
  molluscs as aragonite source 395–403
  Scottish granitoids 661–674
  see also Cambrian; Ordovician; Silurian; Devonian; Carboniferous; Permian
palynology, Namurian 993–1005
Panoche Giant Injection Complex 609–612
Pasinler Basin, geomorphology and tectonics 849–857
Pennsylvanian
  earliest reptiles (discussion) 983–987
  GSSP, Arrow Canyon (Nevada) 859–873
Permian
  evolution of Chinese Tianshan 511–522
  glaciation in Australia 129–140
petrology, Mongolian ophiolite 711–723
photogrammetry, use in tracksite conservation 115–127
Phyllopod Bed 307–318
Pleistocene
  metamorphism in southern Italy 247–262
  Montserrat tephrochronology 279–289
Pliocene
  Italy, crustal shortening 105–114
  Italy, metamorphism 247–262
  Kenya Rift tuffs 549–562
  molluscs and SST in northern Chile 1075–1084

plutonism, thermal rejuvenation in New Zealand 435–447
porosity, effect on dehydration reactions 639–649
Proterozoic, phylogeny in Ediacaran cherts of China 367–378
provenance
  Greenland Cretaceous sediments 755–767
  Indo-Burman Ranges Tertiary sediments 1045–1057
  Tyrone Central Inlier 675–685
pseudotachylite, Lewisian 73–83
Pul'gon Formation 189–210
Pyrenees, dating Saint-Arnac pluton 141–152
pyroclastic currents, AD79 Vesuvius eruption 839–848

Quaternary
  fluvial incision in Morocco 1059–1073
  glacial cycles in Clew Bay 597–607

Rawthey Fault, cements and fluid flow 829–837
Rb–Sr dating
  North Wales tectonism 891–894
  Tyrone Central Inlier 675–685
rejuvenation, New Zealand rhyolite pluton 435–447
reptiles, ecology and trackways (discussion) 983–987
relay zones, Afar grabens 535–547
rheology, new data on lithosphere 453–465
rhyolite, thermal rejuvenation of New Zealand pluton 435–447
rifting
  Gondwanaland 699–709
  Mesozoic of Iberia 1007–1018
Rodinia, breakup evidence 887–890
Rum Igneous Centre 651–659

S-type granite, Scottish granitoids 661–674
Sahara, Ordovician ice sheet 19–29
Saint-Arnac pluton 141–152
salt diapirs, relation to faults in Zagros Fold and Thrust Belt 1031–1044
sand injectites 609–612
sanidine, pheocryst composition in correlations 211–220
scarp and vale landscape, Cotswolds (England) 85–103
schist, evolution and multiple deformation 923–939
Scotland
  Caledonian inlier dating 807–815
  Caledonian Orogeny granitoids 817–827
  Highland Boundary Fault tectonics 915–921
  Langavat Belt age 967–981
  Lewisian pseudotachylite 73–83
  Neoproterozoic granitoids 661–674
  Neoproterozoic sedimentology 379–394
  Rum volcanism 651–659
sea level, South Pacific 585–596
sea surface temperature (SST), Pliocene of northern Chile 1075–1084
sea-floor spreading, Neo-Tethys 699–709
seamount subduction, offshore Nicaragua 167–176
sector collapse, Stromboli 883–886
sediment volume, calculations based on exhumation in Borneo 353–366
sedimentary rocks, provenance in Indo-Burman Ranges 1045–1057
sedimentology, Phyllopod Bed of British Columbia 307–318
seismic reflection profiles
  Bay of Naples 839–848
  Silverpit Impact Crater 781–794
serpentine, deformation reactions 639–649
SHRIMP dating
  Korla mafic dykes in China 887–890
  metamorphism in Sulu Belt 423–433
  Myanmar jadeitite 221–234
  Scottish granitoids 661–674
Siberia
  Mesozoic core complexes 405–421
  tectonic setting for Alkhon terrane 235–246
Silurian
  bentonites and biostratigraphy 211–220
  stratigraphy of Alai Range 189–210
Silverpit Impact Crater 781–794
Simitli Basin, transtension 499–510
SIMS (secondary ionization mass spectrometry) dating
  Langavat Belt (Scotland) 967–981
  Neoproterozoic of Namibia 153–165
  Scottish Caledonian basement inliers 807–815
slope associations, Silurian–Devonian of Central Asia 189–210
slope failure, evidence from Cretaceous in North Sea 55–72
slumping, evidence from Cretaceous in North Sea 55–72
Sm–Nd model age, Tyrone Central Inlier 675–685
Society awards 881–882
South Caspian Basin, mud volcanoes 769–780
South China Craton, metamorphism of Sulu Belt 423–433
South Harris, new age for Langavat Belt 967–981
Spain, dinosaur trackways 115–127
Sr–Nd isotopes, tectonic setting of Olkhon terrane 235–246
$^{87}Sr/^{86}Sr$, characterizing nappe emplacement in Namibia 739–753
stable isotopes *see* $\delta^{13}C$ also $\delta^{18}O$
Stegosauria 613–623
strain analysis, modelling exhumation processes 1019–1030
stratigraphy, Silurian–Devonian of Central Asia 189–210
Strelley Pool Sandstone 43–53
strike-slip faulting
  NW Ireland 341–352
  relation to diapirs in Zagros Fold and Thrust Belt 1031–1044
Stromboli, dyke emplacement 883–886
Strouma (Strymon) Lineament 499–510
structural geology
  Afar grabens 535–547
  analysis of multiple deformation events 923–939
  analysis of Simitli Basin 499–510
  Mongolian ophiolite 711–723
  new data on lithosphere 453–465
  Variscan of East Pyrenees 141–152
subduction, Chilean margin thermochronology 941–953
submarine landslides, offshore Nicaragua 167–176
Suez Rift 563–578
Sulu Belt, dating metamorphism 423–433
summit calderas, mud volcano 769–780
Sutlej Valley, evolution of orogenic belt 725–737
suture, Carboniferous in Mongolia 711–723
swath acoustic backscatter, data collection in Clew Bay 597–607
Sweden, Silurian bentonites and biostratigraphy 211–220
synorogenic sedimentation, NW Iberian Massif 687–698

Tanneron massif, Variscan evolution 467–478
Tarim Block, dating Korla mafic dykes 887–890
tectonic sequence diagrams (TSD) 923–939
tectonics
  collision and subduction in Chile 941–953
  Lesser Himalayan Sequence evolution 725–737
  pre-Acadian of North Wales 891–894
  relation to landforms in Turkey 849–857
  significance of Highland Boundary Fault 915–921
  unloading evidence from Cotswold topography 85–103
tectonomagmatic evolution, North Atlantic 31–42
tectonothermal evolution
  Chinese Tianshan 511–522
  Scottish granitoids 661–674

Tyrone Central Inlier 675–685
tephrochronology, Pleistocene on Montserrat 279–289
terrestrial cosmogenic nuclide (TCN) methods 1059–1073
Tertiary
Levant margin reactivation 563–578
provenance of sediments in Indo-Burman Ranges 1045–1057
see also Eocene; Miocene; Neogene; Oligocene; Palaeocene; Pliocene
thermal ionization mass spectroscopy (TIMS), dating Tyrone Volcanic Group 333–339
thermochronology, tectonics and subduction in Chile 941–953
thermodynamic modelling, West Carpathians 479–498
thinning, role in exhumation 1019–1030
thrust tectonics, characterizing nappe emplacement in Namibia 739–753
thrusts, Himalaya Main Central Thrust 523–534
Thyreophora 613–623
Tianshan Tectonic Zone, evolution 511–522
Tien Shan, Silurian–Devonian stratigraphy 189–210
Toarcian, carbon isotope excursions (discussion) 875–880
topographic analysis, Cotswolds (England) 85–103
Torridon Group 379–394
tracksites, Cretaceous dinosaur 115–127
trackways, earliest reptiles (discussion) 983–987
transtension, Simitli Basin (Bulgaria) 499–510
Triassic
extinction event (discussion) 988–992
magmatism on Cyprus 699–709
palaeoecology in SW England and Wales 319–332
rifting record in Iberia 1007–1018
tuff, chronology in Kenya Rift 549–562
turbidites, Silurian–Devonian of Central Asia 189–210
Turkana Basin, tuff chronology 549–562
Turkey, geomorphology and tectonics 849–857
Twt Hill Granite 891–894
Tyrone Central Inlier, tectonothermal evolution 675–685
Tyrone Volcanic Group 333–339
Tyrrhenian Sea, evidence for crustal shortening 105–114

U–He age, collision and subduction on Chilean margin 941–953
U–Pb dating
Andean metabasites 579–584
CAOB metamorphic core complexes 405–421
Chinese Tianshan evolution 511–522
detrital zircons in Cretaceous sediments of Greenland 687–698, 755–767
Korla mafic dykes of China 887–890
Langavat Belt (Scotland) 967–981
Lesser Himalayan Sequence metamorphism 725–737
Myanmar jadeitite 221–234
Mykonos monzogranite 263–277
North Wales tectonism 891–894
NW Iberian Massif 687–698
Olkhon terrane intrusives and metamorphism 235–246
Saint-Arnac pluton 141–152
Scottish Caledonian basement inliers 807–815
Scottish granitoids 661–674
Sulu Belt metamorphism 423–433
Tyrone Central Inlier 675–685
Tyrone Volcanic Group of Northern Ireland 333–339
Variscan of SE France 467–478
uplift
evidence from Cotswold topography 85–103
sediment volume calculations in Borneo 353–366
uraninite, age in Lesser Himalayan Sequence 725–737
USA, GSSP, Arrow Canyon (Nevada) 859–873
Uzbekistan *see* Alai Range

Variscan Belt
depositional age in NW Iberian Massif 687–698
SE France 467–478
Variscan orogeny
dating Saint-Arnac pluton 141–152
metamorphism in Carpathians 479–498
Vepor Unit 479–498
Vesuvius, AD79 eruption 839–848
volcanic processes
AD79 Vesuvius eruption 839–848
nutrient flux in LIP 955–966
volcanism, age on Rum 651–659
volcanoes, Stromboli dyke emplacement 883–886

Wales
dating pre–Acadian tectonism 891–894
Triassic palaeoecology 319–332
Wandel Sea Basin, Cretaceous sediment provenance studies 755–767
Westbury Formation 319–332

XRD, use in Silurian bentonite correlation 211–220

Zagros Fold and Thrust Belt, faults and diapirs 1031–1044
zircon age
collision and subduction on Chilean margin 941–953
Cretaceous sediments in Greenland 755–767
Himalaya Main Central Thrust 523–534
intrusives and metamorphism of Olkhon terrane 235–246
Korla mafic dykes of China 887–890
Langavat Belt (Scotland) 967–981
metamorphic core complexes of CAOB 405–421
metamorphism of Lesser Himalayan Sequence 725–737
metamorphism in Sulu Belt 423–433
Myanmar jadeitite 221–234
Mykonos monzogranite 263–277
Namibia Neoproterozoic igneous complex 153–165
NW Iberian Massif 687–698
Saint-Arnac pluton 141–152
Scottish Caledonian basement inliers 807–815
Scottish granitoids 661–674
Tyrone Volcanic Group of Northern Ireland 333–339
zoning, crystals in rejuvenated rhyolite 435–447

CONTENTS

Society Awards for 2008 881

Reviews, Research Articles and Specials

ALLEN, R., NAJMAN, Y., CARTER, A., BARFOD, D., BICKLE, M. J., CHAPMAN, H. J., GARZANTI, E., VEZZOLI, G., ANDÒ, S. & PARRISH, R. R. Provenance of the Tertiary sedimentary rocks of the Indo-Burman Ranges, Burma (Myanmar): Burman arc or Himalayan-derived? 1045

ARBOLEYA, M.-L., BABAULT, J., OWEN, L. A., TEIXELL, A. & FINKEL, R. C. Timing and nature of Quaternary fluvial incision in the Ouarzazate foreland basin, Morocco 1059

ARKWRIGHT, J. C., RUTTER, E. H., BRODIE, K. H. & LLANA-FÚNEZ, S. Role of porosity and dehydration reaction on the deformation of hot-pressed serpentinite aggregates 639

BARNETT, A.J. & WRIGHT, V.P. A sedimentological and cyclostratigraphic evaluation of the completeness of the Mississippian–Pennsylvanian (Mid-Carboniferous) Global Stratotype Section and Point, Arrow Canyon, Nevada, USA 859

BATES, K. T., RARITY, F., MANNING, P. L., HODGETTS, D., VILA, B., OMS, O., GALOBART, A., GAWTHORPE, R. L. High-resolution LiDAR and photogrammetric survey of the Fumanya dinosaur tracksites (Catalonia): implications for the conservation and interpretation of geological heritage sites 115

BRICHAU, S., RING, U., CARTER, A., BOLHAR, R., MONIÉ, P., STOCKLI, D. & BRUNEL, M. Timing, slip rate, displacement and cooling history of the Mykonos detachment footwall, Cyclades, Greece, and implications for the opening of the Aegean Sea basin 263

BUCKLEY, S. J., HOWELL, J. A., ENGE, H. D. & KURZ, T. H. Terrestrial laser scanning in geology: data acquisition, processing and accuracy considerations 625

BUTLER, R. W. H., BOND, C. E., SHIPTON, Z. K., JONES, R. R. & CASEY, M. Fabric anisotropy controls faulting in the continental crust 449

CHAMBERS, J. A., ARGLES, T. W., HORSTWOOD, M. S. A., HARRIS, N. B. W., PARRISH, R. R. & AHMAD, T. Tectonic implications of Palaeoproterozoic anatexis and Late Miocene metamorphism in the Lesser Himalayan Sequence, Sutlej Valley, NW India 725

CHAN, G. H.-N., MALPAS, J. G., XENOPHONTOS, C. & LO, C.-H. Magmatism associated with Gondwanaland rifting and Neo-Tethyan oceanic basin development: evidence from the Mamonia Complex, SW Cyprus 699

CHEW, D. M., FLOWERDEW, M. J., PAGE, L. M., CROWLEY, Q. G., DALY, J. S., COOPER, M. & WHITEHOUSE, M. J. The tectonothermal evolution and provenance of the Tyrone Central Inlier, Ireland: Grampian imbrication of an outboard Laurentian microcontinent? 675

COLLINS, P.E.F., RUST, D.J. & BAYRAKTUTAN, M.S. Geomorphological evidence for a changing tectonic regime, Pasinler Basin, Turkey 849

COOPER, M. R., CROWLEY, Q. G. & RUSHTON, A. W. A. New age constraints for the Ordovician Tyrone Volcanic Group, Northern Ireland 333

DEMOUX, A. SCHÄRER, U. & CORSINI, M. Variscan evolution of the Tanneron massif, SE France, examined through U–Pb monazite ages 467

DONG, L., XIAO, S., SHEN, B. & ZHOU, C. Silicified Horodyskia and Palaeopascichnus from upper Ediacaran cherts in South China: tentative phylogenetic interpretation and implications for evolutionary stasis 365

DONSKAYA, T. V., WINDLEY, B. F., MAZUKABZOV, A. M., KRÖNER, A., SKLYAROV, E. V., GLADKOCHUB, D. P., PONOMARCHUK, V. A., BADARCH, G., REICHOW, M. K. & HEGNER, E. Age and evolution of late Mesozoic metamorphic core complexes in southern Siberia and northern Mongolia 405

ESMERODE, E. V., LYKKE-ANDERSEN, H. & SURLYK, F. Interaction between bottom currents and slope failure in the Late Cretaceous of the southern Danish Central Graben, North Sea 55

EVANS, R.J., STEWART, S.A. & DAVIES, R.J. The structure and formation of mud volcano summit calderas 769

FIELDING, C. R., FRANK, T. D., BIRGENHEIER, L. P., RYGEL, M. C., JONES, A.T. & ROBERTS, J. Stratigraphic imprint of the late Palaeozoic Ice Age in eastern Australia: a record of alternating glacial and nonglacial climate regime 129

FORSTER, M. A. & LISTER, G. S. Tectonic sequence diagrams and the structural evolution of schists and gneisses in multiply deformed terranes 923

FRIEND, C.R. L., STRACHAN, R.A. & KINNY, P.D. U–Pb zircon dating of basement inliers within the Moine Supergroup, Scottish Caledonides: implications of Archaean protolith ages 807

GABBOTT, S. E., ZALASIEWICZ, J. A. & COLLINS, D. Sedimentation of the Phyllopod Bed within the Cambrian Burgess Shale Formation of British Columbia 307

GLADKOCHUB, D. P., DONSKAYA, T. V., WINGATE, M. T. D., POLLER, U., KRÖNER, A., FEDOROVSKY, V. S.,

Mazukabzov, A. M., Todt, W. & Pisarevsky, S. A. Petrology, geochronology, and tectonic implications of c. 500 Ma metamorphic and igneous rocks along the northern margin of the Central Asian Orogen (Olkhon terrane, Lake Baikal, Siberia) 235
Glynn, B., Brown, C. & Rooney, S. Coincident swath acoustic backscatter and bathymetry for the interpretation of shallow-water sediment composition and processes 597
Gvirtzman, Z., Zilberman, E. & Folkman, Y. Reactivation of the Levant passive margin during the late Tertiary and formation of the Jaffa Basin offshore central Israel 563
Houston, J., Hart, D. & Houston, A. Neogene sedimentary deformation in the Chilean forearc and implications for Andean basin development, seismicity and uplift 291
Inwood, J., Brewer, T. S., Braaksma, H. & Pezard, P. Integration of core, logging and drilling data in modern reefal carbonates to improve core location and recovery estimates (IODP Expedition 310) 585
Jackson, J., McKenzie, D., Priestley, K. & Emmerson, B. New views on the structure and rheology of the lithosphere 453
Jay, A. E. & Widdowson, M. Stratigraphy, structure and volcanology of the SE Deccan continental flood basalt province: implications for eruptive extent and volumes 177
Jeřábek, P., Faryad, W. S., Schulmann, K., Lexa, O. & Tajčmanova, L. Alpine burial and heterogeneous exhumation of Variscan crust in the West Carpathians: insight from thermodynamic and argon diffusion modelling 479
Jolley, D. W., Widdowson, M. & Self, S. Volcanogenic nutrient fluxes and plant ecosystems in large igneous provinces: an example from the Columbia River Basalt Group 955
Kelly, N.M., Hinton, R. W., Harley, S. L. & Appleby, S. K. New SIMS U–Pb zircon ages from the Langavat Belt, South Harris, NW Scotland: implications for the Lewisian terrane model 967
Kiipli, T., Jeppsson, L., Kallaste, T. & Söderlund, U. Correlation of Silurian bentonites from Gotland and East Baltic using the sanidine phenocryst composition and biostratigraphical consequences 211
Kimbell, G.S. & Richards, P.C. The three-dimensional lithospheric structure of the Falkland Plateau region based on gravity modeling 795
Kirkland, C. L., Alsop, G. I. & Prave, A. R. The brittle evolution of a major strike-slip fault associated with granite emplacement: a case study of the Leannan Fault, NW Ireland 341
Konopásek, J., Košler, J., Tajčmanová, L. & Ulrich, S. & Kitt, S. L. Neoproterozoic igneous complex emplaced along major tectonic boundary in the Kaoko Belt (NW Namibia): ion probe and laser ablation ICP-MS dating of magmatic and metamorphic zircons 153
Koyi, H.A., Ghassemi, A., Hessami, K. & Dietl, C. The role of strike-slip faults in triggering salt diapirs in the Zagros fold–thrust belt 1031
Krabbendam, M., Prave, T. & Cheer, D. A fluvial origin for the Neoproterozoic Morar Group, NW Scotland; implications for Torridon–Morar group correlation and the Grenville Orogen Foreland Basin 379
Lane, N.F., Watts, A. B. & Farrant, A. R. An analysis of Cotswold topography: insights into the landscape response to denudational isostasy 85
Le Friant, A., Lock, E. J., Hart, M. B., Boudon, G., Sparks, R. S. J., Leng, M. J., Smart, C. W., Komorowski, J. C., Deplus, C. & Fisher, J. K. Late Pleistocene tephrochronology of marine sediments adjacent to Montserrat, Lesser Antilles volcanic arc 279
Le Heron, D. P. & Craig, J. First-order reconstructions of a Late Ordovician Saharan ice sheet 19
Li, Q., Liu, S., Wang, Z., Han, B., Shu, G. & Wang, T. Electron microprobe monazite geochronological constriants on the Late Palaeozoic tectonothermal evolution in the Chinese Tianshan 511
Mander, L., Twitchett, R. J.& Benton, M. J. Palaeoecology of the Late Triassic extinction event in SW UK 319
Martínez Catalán, J. R., Fernández-Suárez, J., Meireles, C., González Clavijo, E., Belousova, E., & Saeed, A. U–Pb detrital zircon ages in synorogenic deposits of the NW Iberian Massif (Variscan belt): interplay of Devonian–Carboniferous sedimentation and thrust tectonics 687
McDougall, I. & Brown, F. H. Geochronology of the pre-KBS Tuff esquence, Omo Group, Turkana Basin 549
Milia, A., Molisso, F., Raspini, A., Sacchi, M. & Torrente, M.M. Syneruptive features and sedimentary processes associated with pyroclastic currents entering the sea: the AD 79 of Vesuvius, Bay of Naples, Italy 839
Miller, J. A., Viola, G. & Manckтelow, N. S. Oxygen, carbon and strontium isotope constraints on the mechanisms of nappe emplacement and fluid–rock interaction along the subhorizontal Naukluft Thrust, central Namibia 739
Mjelde, R., Breivik, A. J., Raum, T., Mittelstaedt, E., Ito, G. & Faleide, J. I. Magmatic and tectonic evolution of the North Atlantic 31

MOLLOY, C., SHANE, P. & NAIRN, I. Pre-eruption thermal rejuvenation and stirring of a partly crystalline rhyolite pluton revealed by the Earthquake Flat Pyroclastics deposits, New Zealand 435
MORLEY, C. K. & BACK, S. Estimating hinterland exhumation from late orogenic basin volume, NW Borneo 353
MUSUMECI, G., MAZZARINI, F. & BARSELLA, M. Pliocene crustal shortening on the Tyrrhenian side of the northern Apennines: evidence from the Gavorrano antiform (southern Tuscany, Italy) 105
NAISH, D. & MARTILL, D. M. Dinosaurs of Great Britain and the role of the Geological Society of London in their discovery: Ornithischia 613
NERI, M., LANZAFAME, G. & ACOCELLA, V. Dyke emplacement and related hazard in volcanoes with sector collapse: the 2007 Stromboli (Italy) eruption 883
OLIVER, G. H. J., WILDE, S. A. & WAN, Y. Geochronology and geodynamics of Scottish granitoids from the late Neoproterozoic break-up of Rodinia to Palaeozoic collision 661
OLIVEROS, V., AGUIRRE, L., MORATA, D., SIMONETTI, A., VERGARA, M., BELMAR, M. & CALDERÓN, S. Geochronology of very low-grade Mesozoic Andean metabasites: an approach through the K–Ar, $^{40}Ar/^{39}Ar$ and U-Pb LA-MC-ICP-MS methods 579
OLIVIER, P., GLEIZES, G., PAQUETTE, J.-L. MUÑOZ SÁEZ, C. Structure and U–Pb dating of the Saint-Arnac pluton and the Ansignan charnockite (Agly massif): a cross-section from the upper to the middle crust of the Variscan Eastern Pyrenees 141
PEARSON, D. G. & WITTIG, N. Formation of Archaean continental lithosphere and its diamonds: the root of the problem 895
PICCARDI, L., MONTI, C., VASELLI, O., TASSI, F., GAKI-PAPANASTASSIOU, K. & PAPANASTASSIOU, D. Scent of a myth: tectonics, geochemistry and geomythology at Delphi (Greece) 5
PICKERING, K. T., KOREN, T. N., LYTOCHKIN, V. N. & SIVETER, D. J. Silurian–Devonian active-margin deep-marine systems and palaeogeography, Alai Range, Southern Tien Shan mountains, Central Asia 189
RAGAINI, L., DI CELMA, C. & CANTALAMESSA, G. Warm-water mollusc assemblages from northern Chile (Mejillones Peninsula): new evidence for permanent El Niño-like conditions during the Pliocene warmth? 1075
RING, U. & KUMERICS, C. Vertical ductile thinning and its contribution to the exhumation of high-pressure rocks: the Cycladic blueschist unit in the Aegean 1019
RIPPINGTON, S., CUNNINGHAM, D. & ENGLAND, R. Structure and petrology of the Altan Uul Ophiolite: new evidence for a Late Carboniferous suture in the Gobi Altai, southern Mongolia 711
RØHR, T. S., ANDERSEN, T. & DYPVIK, H. Provenance of Lower Cretaceous sediments in the Wandel Sea Basin, North Greenland 755
ROSSETTI, F., BALSAMO, F., VILLA, I. M., BOUYBAOUENNE, M., FACCENNA, C. & FUNICIELLO, R. Pliocene–Pleistocene HT–LP metamorphism during multiple granitic intrusions in the southern branch of the Larderello geothermal field (Southern Tuscany, Italy) 247
SCHOFIELD, D. I., EVANS, J. A., MILLAR, I. L., WILBY, P. R. & ASPDEN, J. New U–Pb and Rb–Sr constraints on pre-Acadian tectonism in North Wales 891
SEARLE, M. P., LAW, R. D., GODIN, L., LARSON, K. P., STREULE, M. J., COTTLE, J. M. &. JESSUP, M. J. Defining the Himalayan Main Central Thrust in Nepal 523
SHERLOCK, S. C., JONES, K. A. & PARK, R.G. Grenville-age pseudotachylite in the Lewisian: laserprobe $^{40}Ar/^{39}Ar$ ages from the Gairloch region of Scotland (UK) 73
SHI, G., CUI, W., CAO, S., JIANG, N., JIAN, P., LIU, D., MIAO, L. & CHU, B. Ion microprobe zircon U–Pb age and geochemistry of the Myanmar jadeitite 221
SOTO, R., CASAS-SAINZ, A.M., VILLALAÍN, J., GIL-IMAZ, A., FERNÁNDEZ-GONZÁLEZ, G., DEL RÍO, P., CALVO, M. & MOCHALES, T. Characterizing the Mesozoic extension direction in the northern Iberian plate margin by means of anisotropy of magnetic susceptibility (AMS) 1007
SPIKINGS, R., DUNGAN, M., FOEKEN, J., CARTER, A., PAGE, L. & STUART, F. Tectonic response of the central Chilean margin (35–38°S) to the collision and subduction of heterogeneous oceanic crust: a thermochronological study 941
STEINHOEFEL, G., HEGNER, E. & OLIVER, G.J.H. Chemical and Nd isotope constraints on granitoid sources involved in the Caledonian Orogeny in Scotland 817
STEPHENSON, M.H., MILLWARD, D., LENG, M. J. & VANE, C. H. Palaeoecological and possible evolutionary effects of early Namurian (Serpukhovian, Carboniferous) glacioeustatic cyclicity 993
STONE, P. RICHARDS, P. C., KIMBELL, G. S., ESSER, R. P. & REEVES, D. Cretaceous dykes discovered in the Falkland Islands: implications for regional tectonics in the South Atlantic 1
TALUKDER, A. R., BIALAS, J., KLAESCHEN, D., BRUECKMANN, W., RESTON, T. & PETERSEN, J. Tectonic framework of the mud mounds, associated BSRs and submarine landslides off shore Nicaragua pacific margin 167

TANNER, G. Tectonic significance of the Highland Boundary Fault, Scotland 915
TESFAYE, S., ROWAN, M. G., MUELLER, K., TRUDGILL, B. D. & HARDING, D. J. Relay and accommodation zones in the Dobe and Hanle grabens, central Afar, Ethiopia and Djibouti 535
TRANOS, M. D., KACHEV, V. N. & MOUNTRAKIS, M. D. Transtensional origin of the NE–SW Simitli basin along the Strouma (Strymon) Lineament, SW Bulgaria 499
TROLL, V. R., NICOLL, G. R., DONALDSON, C. H. & EMELEUS, H. C. Dating the onset of volcanism at the Rum Igneous Centre, NW Scotland 651
VIGORITO, M., HURST, A., CARTWRIGHT, J. A. & SCOTT, A. Regional-scale subsurface crustal sediment remobilization: geometry and architecture 609
WACEY, D., KILBURN, M. R., MCLOUGHLIN, N., PARNELL, J., STOAKES, C. A., GROVENOR, C.R.M. & BRASIER, M. D. Use of NanoSIMS in the search for early life on Earth: ambient inclusion trails in a c. 3400 Ma sandstone 43
WALL, M., CARTWRIGHT, J.A. & DAVIES, R.J. An Eocene age for the proposed Silverpit Impact Crater 781
WHEELEY, J. R., CHERNS, L. & WRIGHT, V. P. Provenance of microcrystalline carbonate cement in limestone–marl alternations (LMA): aragonite mud or molluscs? 395
WOODCOCK, N.H., SAYERS, N.J. & DICKSON, J.A.D. Fluid flow history from damage zone cements near the Dent and Rawthey faults, NW England 829
ZHOU, J.-B., WILDE, S. A., ZHAO, G.-C., ZHENG, C.-Q., JIN, W., ZHANG, X-Z. & CHENG, H. Detrital zircon U–Pb dating of low-grade metamorphic rocks in the Sulu UHP belt: evidence for overthrusting of the North China block onto the South China block during continental subduction 423
ZHU, W., ZHANG, Z., SHU, L., LU, H., SU, J. & YANG, W. SHRIMP U–Pb zircon geochronology of Neoproterozoic Korla mafic dykes in the northern Tarim Block, NW China: implications for the long-lasting breakup process of Rodinia 887

Discussions

BAILEY, R.J. & SMITH, D.G. and MCARTHUR, J.M. Discussion on the Late Palaeocene–Early Eocene and Toarcian (Early Jurassic) carbon isotope excursions: a comparison of their time scales, associated environmental change, causes and consequences; replies by COHEN A.S., COE A.L. & KEMP D.B. 875
KEIGHLEY, D., CALDER, J., PARK, A., PICKERILL, R. & WALDRON, J. Discussion on ecology of earliest reptiles inferred from basal Pennsylvanian trackways; reply by FALCON-LANG, H. & BENTON, M. 983
RADLEY, J. and COPE, J. Discussion on palaeoecology of the Late Triassic extinction event in the SW UK; replies by TWITCHETT, R. J. & MANDER, L. 988